

# AFOQT Prep

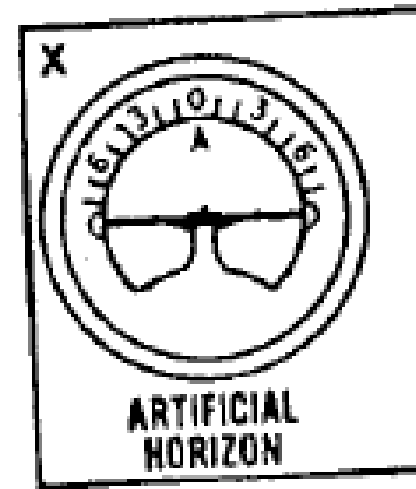
## Lesson 3

# Instrument Comprehension

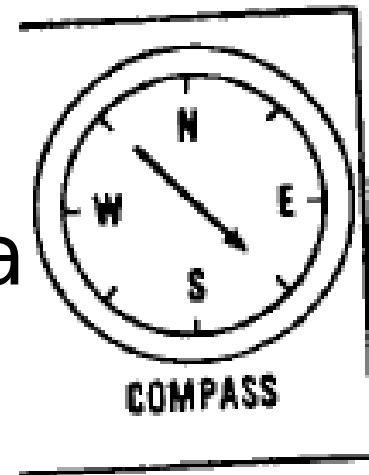
- 6 Minutes – 20 Questions
- Very fast pace
  - 18 seconds per question
  - Need to become comfortable with an artificial horizon and a compass and how they relate
- Ground rules
  - The arrow on the artificial horizon always point to the sky
  - On the answer options, the “camera” is always at the level of the airplane, looking North

# Examples

- Straight and level flight



- Airplane pointing southea

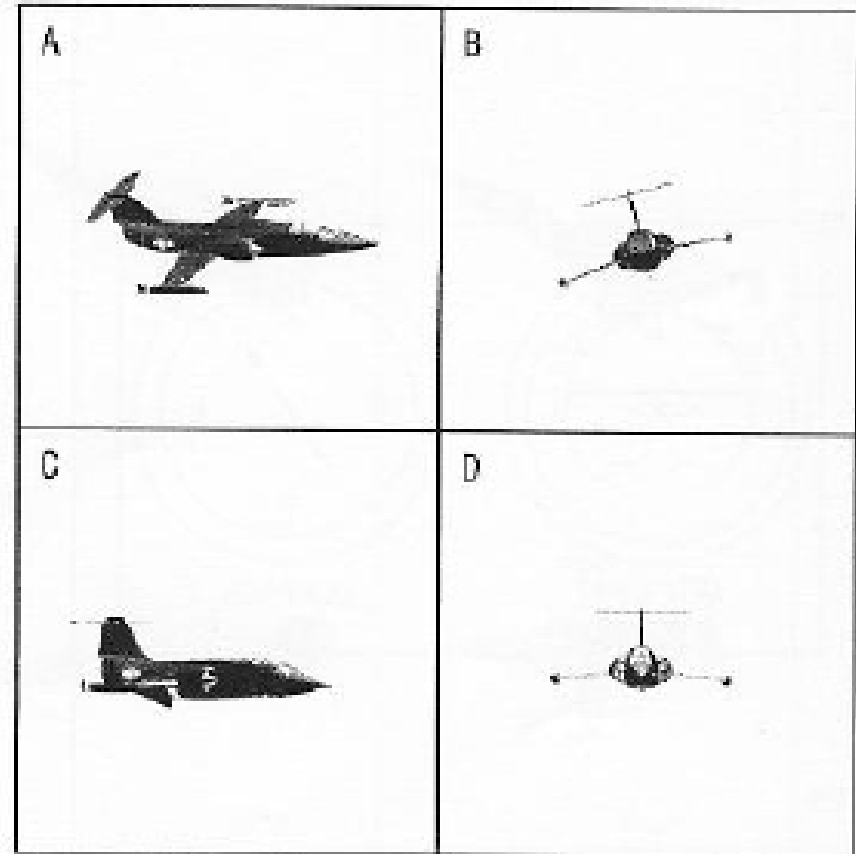
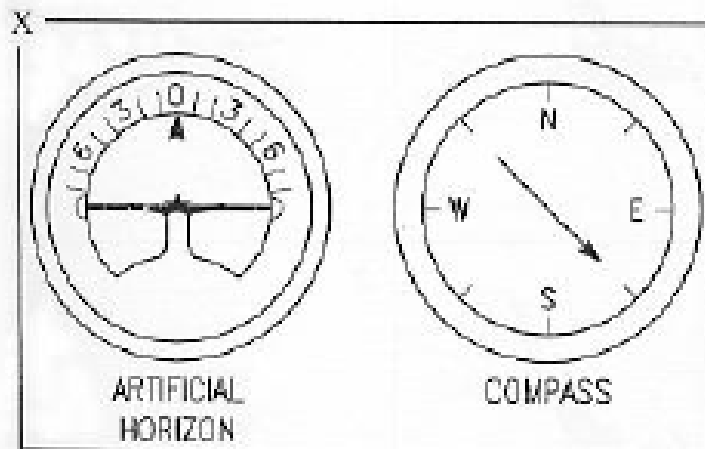


# Tips

- It's always the same plane (F-104)
- Pictures are lower quality here than they will be on the AFOQT
- Determine some type of method that works for you to solve these if you don't like mine
- Remember that speed is KEY!

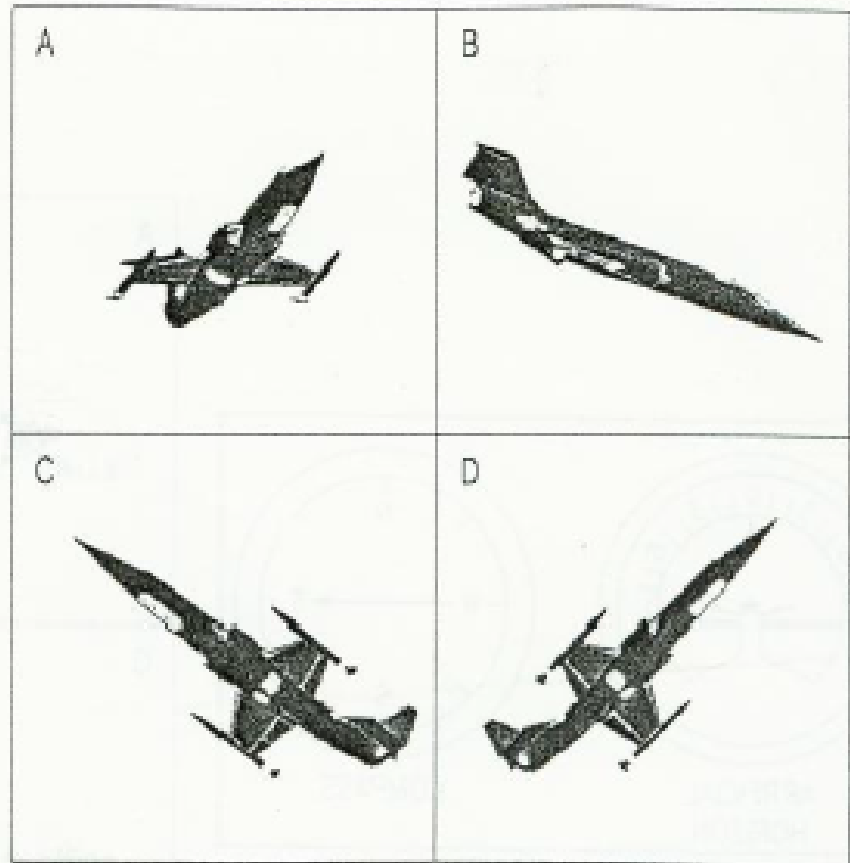
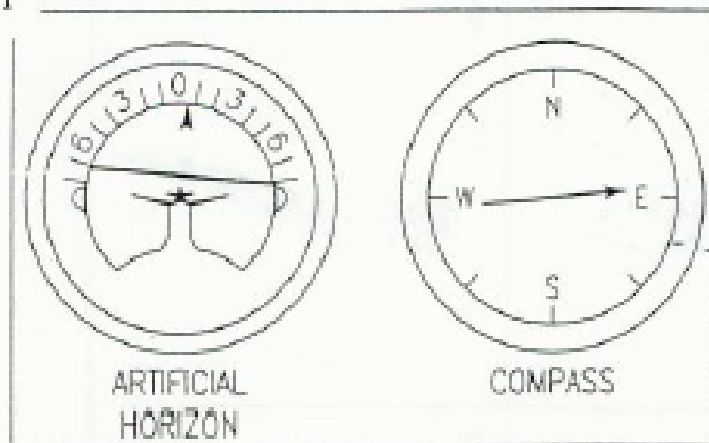
**PREPARE TO TEST**

# 1



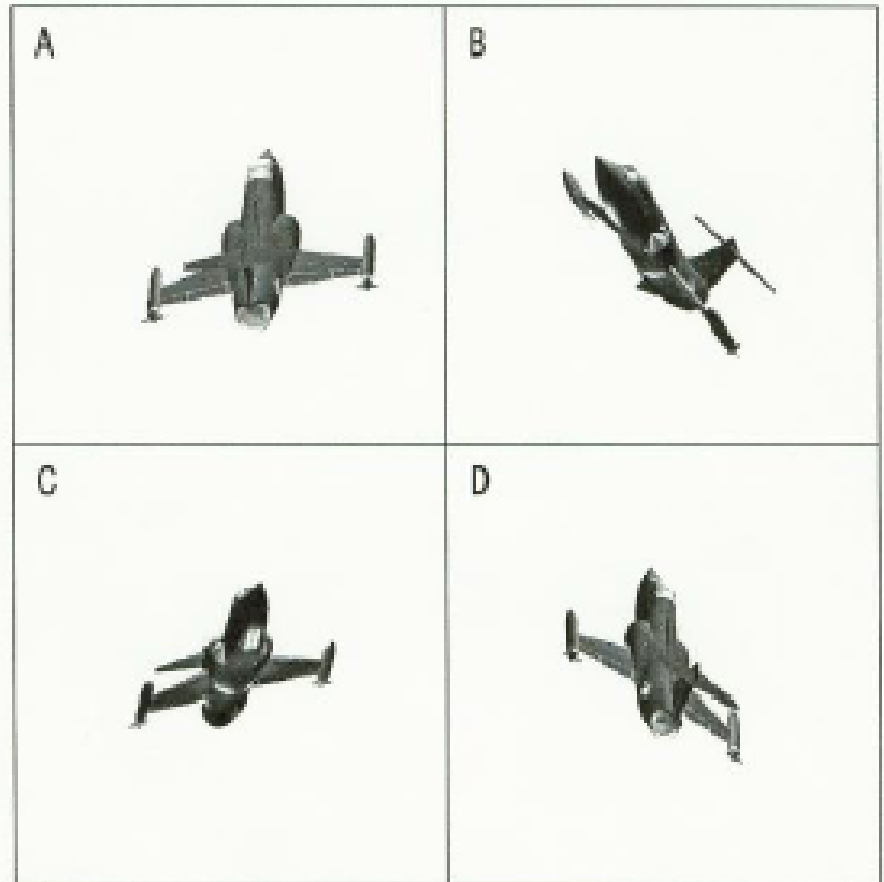
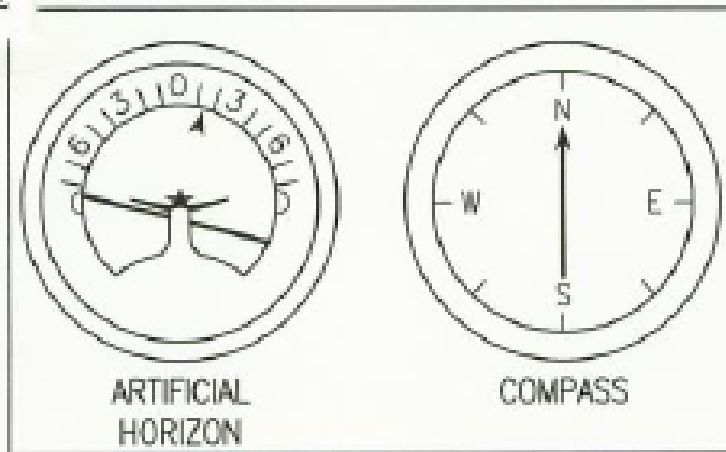
# 2

1



# 3

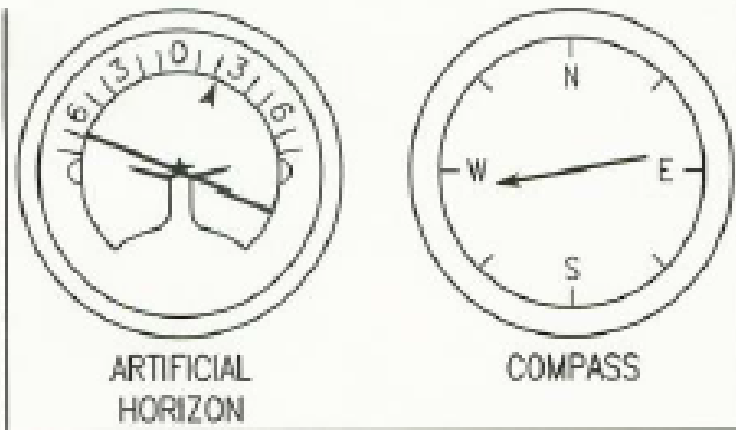
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# 4

3



A



B



C

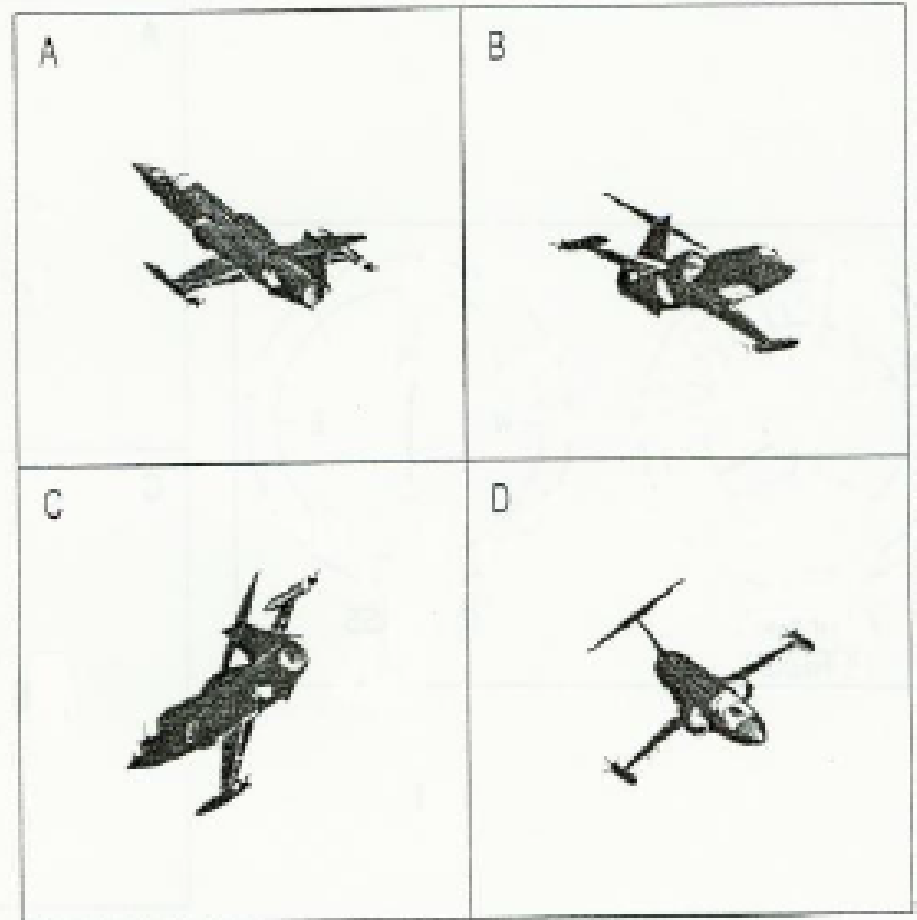
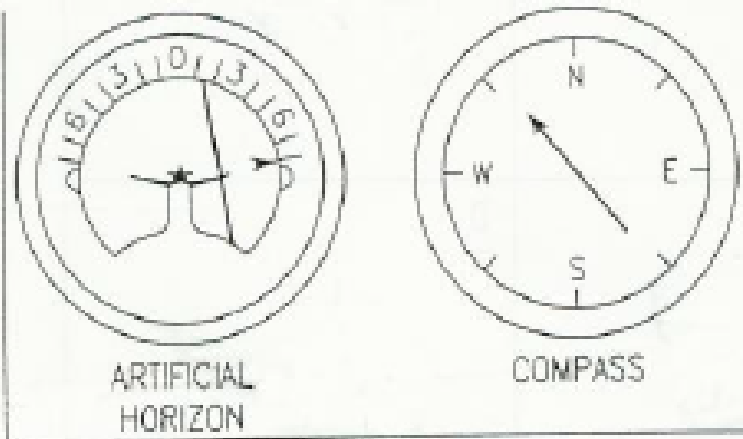


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# 5

4

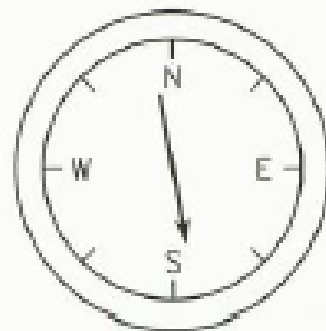


# 6

5



ARTIFICIAL  
HORIZON



COMPASS

A



B



C



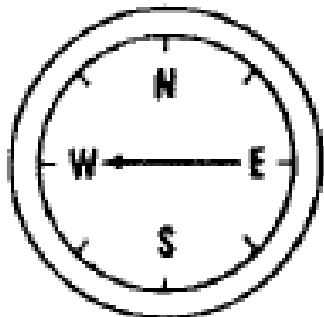
D



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ARTIFICIAL  
HORIZON



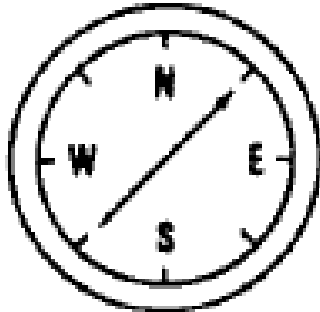
COMPASS



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ARTIFICIAL  
HORIZON

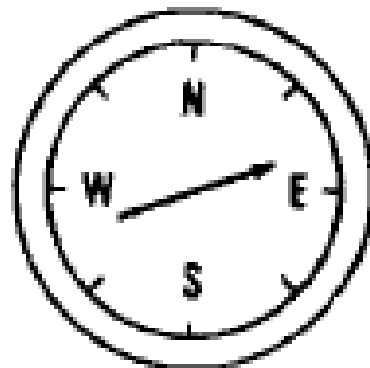


COMPASS





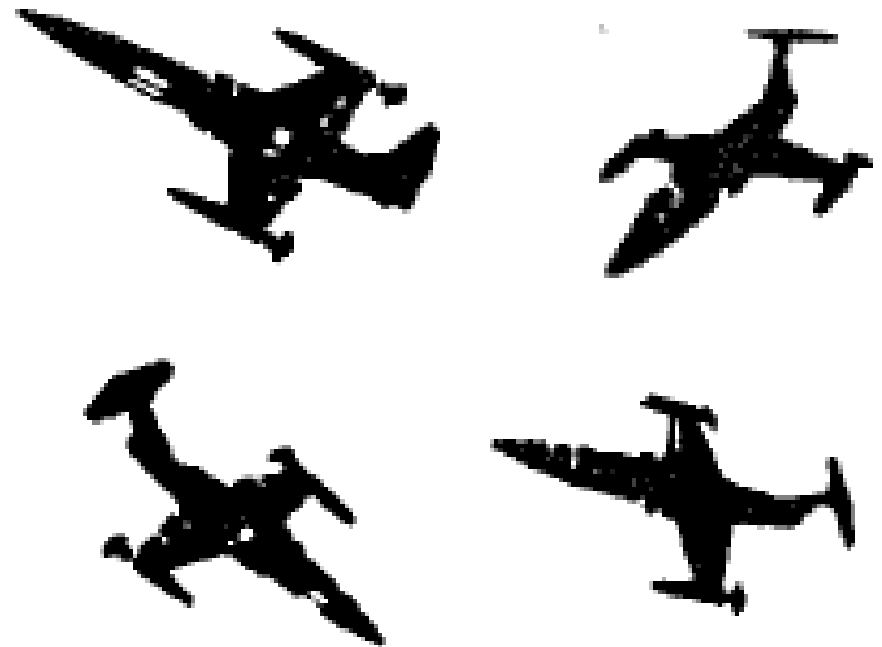
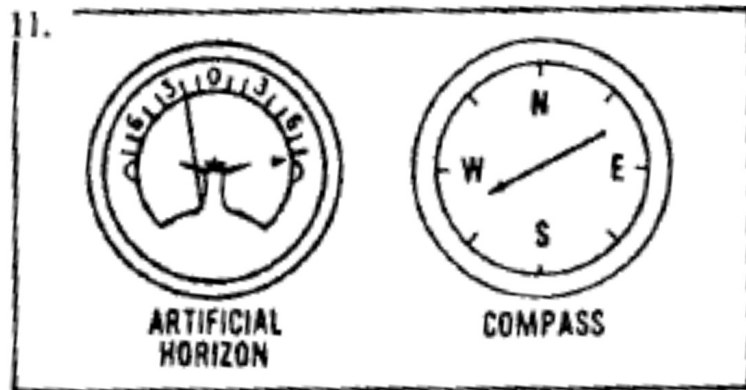
ARTIFICIAL  
HORIZON



COMPASS



# 10



12.



ARTIFICIAL  
HORIZON



COMPASS

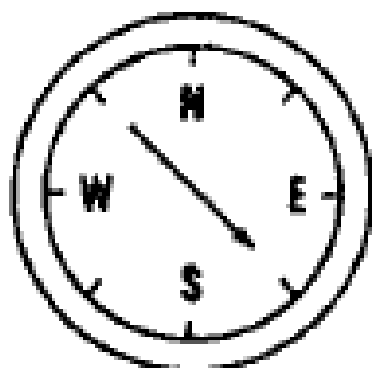




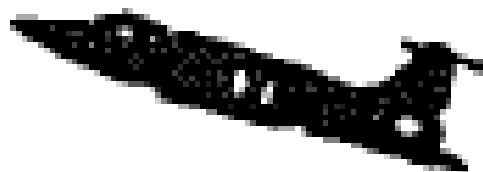
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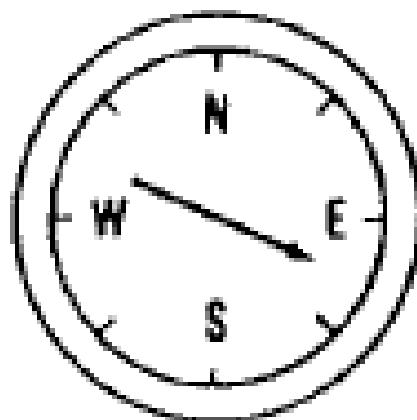
COMPASS



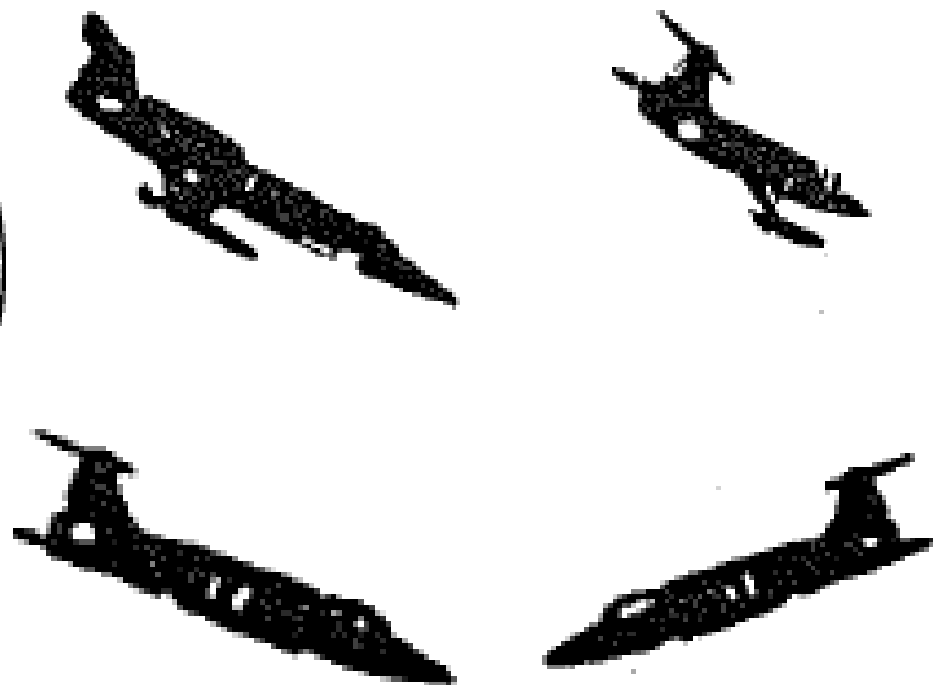
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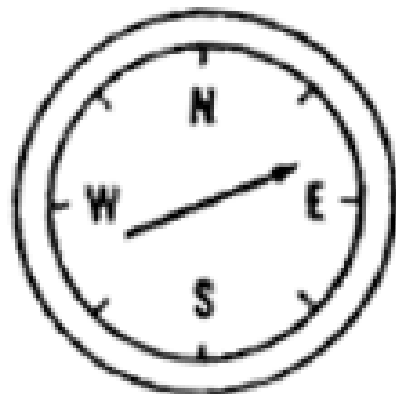


COMPASS





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HORIZON



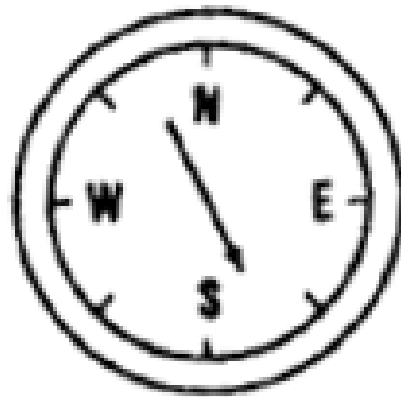
COMPASS



15



ARTIFICIAL  
HORIZON



COMPASS



# ANSWERS

1. C
2. B
3. A
4. D
5. C
6. C
7. C
8. A
9. B
- 10D
- 11D
- 12C
- 13A
- 14B
- 15D

# Table Reading Diagnostic

Measures ability to read a table quickly and accurately

40 Questions – 7 Minutes

Begin!!

COMPLETE



# Answers

- 1.
- 2.
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- C
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- B
- D
- B
- A
- D
- E
- B
- C
- A

# Word Knowledge Diagnostic

25 Questions – 5 Minutes

Prepare to Test

1. ADAMANT:
  - A. Make up
  - B. Throw away
  - C. Go through
  - D. Inflexible
  - E. petty
2. ALTERCATION:
  - A. Defeat
  - B. To make fun of
  - C. Robbery
  - D. Controversy
  - E. Irritation
3. ASSENT:
  - A. Acquire
  - B. Climb
  - C. Agreement
  - D. Emphasize
  - E. Participate
4. ATTRITION:
  - A. Give Up
  - B. Wear Down
  - C. Solve
  - D. Expand
  - E. Purify

5. AUTHENTIC:
- A. Detailed
  - B. Randomly
  - C. Genuine
  - D. Literary
  - E. Practical
6. CONDUCTIVE:
- A. Confusing
  - B. Cooperative
  - C. Precious
  - D. Energetic
  - E. Respectful
7. COUNTERACT:
- A. Criticize
  - B. Erode
  - C. Deceit
  - D. Retreat
  - E. Neutralize
8. DELETERIOUS:
- A. Revoke
  - B. Low
  - C. Mangle
  - D. Frail
  - E. Harmful

9. DILATED:
- A. Cleared
  - B. Deceased
  - C. Graphic
  - D. Contradictive
  - E. Enlarged

10. FLEXIBLE:
- F. Flammable
  - G. Intercede
  - H. Pliable
  - I. Rigid
  - J. Separable

11. FORTNIGHT:
- A. Two days
  - B. One night
  - C. Two weeks
  - D. One month
  - E. 7 hours

12. IMPARTIAL:
- A. Complete
  - B. Not Intelligent
  - C. Fair
  - D. Sincere
  - E. Watchful

13. INCIDENTAL:

- A. Casual
- B. Unexpected
- C. Infrequent
- D. Necessary
- E. Difficult

14. INDOLENT:

- A. Strong
- B. Aware
- C. Patient
- D. Lazy
- E. Rude

15. NOTORIOUS:

- A. Annoying
- B. Condemned
- C. Large
- D. Official
- E. Well known

16. REBUFF:

- A. Forget
- B. Snub
- C. Recover
- D. Polish
- E. Ignore

17. SUCCINCT:

- A. Concise
- B. Bliss
- C. Helpless
- D. Sweet
- E. Loud

18. SULLEN:

- A. Angry
- B. Austere
- C. Happy
- D. Tortured
- E. Sulky

19. SYMPTOM:

- A. Test
- B. Couch
- C. Edifice
- D. Sign
- E. Denture

20. TEDIOUS:

- A. Brief
- B. Disconnected
- C. Simple
- D. Dull
- E. Surprising



21. TERSE:

- A. Faulty
- B. Unite
- C. Recall
- D. Utility
- E. Pointed

22. TRIVIAL:

- A. Distress
- B. Petty
- C. Teamwork
- D. End
- E. Abnormal

23. VERIFY:

- A. Confirm
- B. Vague
- C. Seed
- D. Question
- E. Explain

24. COROLLARY

- A. Conclusion
- B. Watchful
- C. Trespass
- D. Levitate
- E. Bully

## 25. SUBSEQUENT

- A. Precede
- B. Lead
- C. Encircle
- D. Following
- E. Unbridled

COMPLETE

# Answers

1.	D
2.	D
3.	C
4.	B
5.	C
6.	B
7.	E
8.	E
9.	E
10.	C
11.	C
12.	C
13.	B
14.	D
15.	E
16.	B
17.	A
18.	E
19.	D
20.	D
21.	E
22.	B
23.	A
24.	B
25.	D

# Math Diagnostic

- Arithmetic Reasoning
- 29 Minutes – 25 Questions
- More time on this section but don't get behind

PREPARE TO TEST

1. There are 72 freshman in the company. If freshman make up  $\frac{1}{3}$  of the entire company, the total number of students in the band is:
  - A. 24
  - B. 72
  - C. 144
  - D. 203
  - E. 216
2. Tim receives \$30 for his birthday and \$15 for taking out the trash. If he spends \$16 on a CD, how much money does he have left?
  - A. \$29
  - B. \$27
  - C. \$41
  - D. \$1
  - E. \$0.45

3. A television is on sale for 20% off. If the sale price is \$800, what was the original price?

- A. \$160
- B. \$640
- C. \$960
- D. \$1000
- E. \$1160

4. Jim earns \$9.50 per hour plus 3% tip on all sales made. If his total sales during a 30-hour work week were \$500, how much did he earn?

- A. \$15
- B. \$250
- C. \$275
- D. \$285
- E. \$300



5. The area of one circle is 4 times as large as a smaller circle with a radius of 3 inches.

The radius of the larger circle is

A. 12 in

B. 9 in

C. 8 in

D. 6 in

E. 4 in

6. If 400 people can be seated in 8 subway cars, how many people can be seated in 5 subway cars?

A. 200

B. 250

C. 300

D. 350

E. 400

7. An employee earns \$8.25 per hour. In 30 hours, what earnings are made?

- A. \$240.00
- B. \$247.50
- C. \$250.00
- D. \$255.75
- E. \$257.00

8. A bread recipe calls for  $3 \frac{1}{4}$  cups of flour. If you only have  $2 \frac{1}{8}$  cups, how much more flour is needed?

- A.  $1 \frac{1}{8}$
- B.  $1 \frac{1}{4}$
- C.  $1 \frac{3}{8}$
- D.  $1 \frac{3}{4}$
- E. 2

9. How many servings can be made from 2 dozen eggs if a serving contains 3 eggs?

- A. 1
- B. 3
- C. 6
- D. 8
- E. 11

10. Two runners finished a race in 80 seconds, another runner finished the race in 72 seconds, and the final runner finished the race in 68 seconds. The average of these times (in seconds) is

- A. 73
- B. 74
- C. 75
- D. 76
- E. 77

11. You use a \$50 bill to buy a magazine for \$3.95. What change do you get back?

A. \$46.05

B. \$46.95

C. \$47.05

D. \$47.95

E. \$48.05

12. Next to a post, a boy  $3\frac{1}{2}$  feet tall casts a 6-foot shadow. The post casts a 24-foot shadow. How tall is the post?

A. 14 feet

B. 18 feet

C. 28 feet

D. 41 feet

E. 43 feet

13. Devin earns \$8.40 an hour plus an overtime rate equal to  $1\frac{1}{2}$  times her regular pay for each hour worked beyond 40 hours. what are her total earnings for a 45-hour work week?

A. \$336

B. \$370

C. \$399

D. \$567

E. \$599

14. A shirt first priced at \$40 is on sale for \$30. What percent has the sweater been discounted?

A. 25%

B. 33%

C. 70%

D. 75%

E. 80%

15. A box has a length of 3 feet, a height of  $2\frac{1}{2}$  feet, and a depth of 2 feet. If the length and depth are doubled, by what percent does the volume of the box change?

- A. 200%
- B. 300%
- C. 400%
- D. 600%
- E. 800%

16. Mr. Bartlett earns a weekly salary of \$300 plus 10% commission on all sales. If he sold \$8,350 last week, what were his total earnings?

- A. \$835
- B. \$865
- C. \$1135
- D. \$1835
- E. \$1925

17. Tiles cost \$2.89 per square foot. What is the cost to tile a kitchen whose dimensions are 4 yards by 5 yards?

- A. \$57.80
- B. \$173.40
- C. \$289.00
- D. \$520.20
- E. \$640.40

18. One-eighth of a store's books are sold on a Friday. If  $\frac{1}{4}$  of the remaining books are sold the next day, what fractional part of the magazines remains at the end of the second day?

- A.  $\frac{1}{64}$
- B.  $\frac{1}{32}$
- C.  $\frac{1}{8}$
- D.  $\frac{7}{32}$
- E.  $\frac{21}{32}$

19. Joanne deposited \$300 into a savings account earning  $5\frac{1}{4}\%$  annually. What is her balance after one year?

- A. \$15.75
- B. \$315
- C. \$315.25
- D. \$315.75
- E. \$375.15

20. The length of a rectangle is 3 times its width. If the perimeter of the rectangle is 48, what is its area?

- A. 108
- B. 96
- C. 54
- D. 48
- E. 32



# ANSWERS

1. E
2. A
3. D
4. E
5. D
6. B
7. B
8. A
9. D
- 10C
- 11A
- 12A
- 13C
- 14A
- 15B
- 16C
- 17D
- 18E
- 19D
- 20C

Any Questions?